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An Artificial Intelligent Tool for the Screening of Attention Deficit Hyper Disorder

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The primary goal of this research paper is to develop a tool for screening for Attention Deficit Hyper Disorder (ADHD). The "multi-criteria decision-making (MCDM)" method, an extensively used approach for making decisions involving several criteria, has been used to create this screening tool. The amount of knowledge available to a person is vast, ambiguous, and uncertain; fuzzy logic has been used to deal with ambiguity and confusion. Due to the opulence of symptoms that may cause ADHD to know which symptoms affect more and which affect less, a "fuzzy analytic hierarchy process (FAHP)" algorithm has been used with the "If-Then" rule-based approach for determining whether or not an individual has an ADHD. The developed tool uses a hierarchy approach called "Fuzzy Tree" to reduce the huge number of rules. Efforts are being made to develop a less complex tool that can assess a person in a short period and provide accurate results. The validity of the design was verified by the two groups of individuals consisting of the ADHD group (N = 25) and the Typically Developed (TD) group (N = 25). It was confirmed that the method created efficiently differentiated ADHD participants from TD and has a precision of 99 percent..

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